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PATENT ABSTRACTS OF JAPAN

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(30) Priority:	(71) Applicant: SONY CORP
(43) Date of application publication: 16.05.97	(72) Inventor: ONO MASUMI
(84) Designated contracting states:	(74) Representative:

(54) OPTICAL DISK

(57) Abstract:

PROBLEM TO BE SOLVED: To improve resolution in recording information by making a ratio between a high reflectance and a low reflectance in accordance with light transmittance change of a transmittance change layer a prescribed value or above.

SOLUTION: This disk is constituted of a transparent substrate 11, a first dielectric protective layer 12, the transmittance change layer 13, a second dielectric protective layer 14, a reflection layer 15 and a third dielectric protective layer 16. For changing the reflectance of an optical disk, the thickness of the protective layer 12 formed by ZnS-SiO₂ is changed. Then, when the thickness is made 65nm or below, in the reflectance of the

optical disk, the ratio between the high reflectance when $\text{Ge}_2\text{Sb}_2\text{Te}_5$ forming the change layer 13 is in a crystal state and the low reflectance when in a melting state becomes 8 or above, and a bit error becomes 10^{-5} or below. Since the bit error is required to become 10^{-5} or below for precise recording/reproducing, precise information reproduction is performed.

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